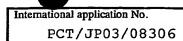


International application No.
PCT/JP03/08306

| A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ C12N15/06, C12N5/20, C07K16/28, C12P21/08 | | | | | | |
|--|---|--|-----------------------|--|--|--|
| According to | According to International Patent Classification (IPC) or to both national classification and IPC | | | | | |
| | S SEARCHED | | | | | |
| Int. | Minimum documentation searched (classification system followed by classification symbols) Int.Cl ⁷ Cl2N15/00-90, Cl2N1/00-7/08, C07K14/00-16/46, Cl2P21/00-08 | | | | | |
| | ion searched other than minimum documentation to the | | | | | |
| Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) JICST FILE (JICST-EPLUS), EUROPAT (QUESTEL), SwissProt/PIR/GeneSeq, MEDLINE (STN), PUBMED, Genbank/EMBL/DDBJ/GeneSeq, WPI (DIALOG), BIOSIS (DIALOG) | | | | | | |
| | MENTS CONSIDERED TO BE RELEVANT | | | | | |
| Category* | Citation of document, with indication, where app | | Relevant to claim No. | | | |
| х | WO 97/22361 A1 (OTSUKA PHARM 26 June, 1997 (26.06.97), & JP 9-227409 A & EP & US 6190863 B1 | CO., LTD.), 870509 A1 | 1-6 | | | |
| х | Noriko OKADA et al., "Tosa Kogen GM2 ni Taisuru Hito-gata IgM Kotai no Ko-HIV Kassei", Nagoya Shiritsu Daigaku Igakukai Zasshi, 1999, Vol.50, No.1/2, pages 9 to 13 | | 1-6 | | | |
| х | Wu Xiaoshan et al., The IgM antibody level against ganglioside GM2 correlates to the disease status of HIV-1-infected patients., Microbiology and Immunology 2000, Vol.44, No.5, pages 405 to 410 | | 1-6 | | | |
| × Furthe | er documents are listed in the continuation of Box C. | See patent family annex. | <u> </u> | | | |
| * Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed "E" | | priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family | | | | |
| Date of the actual completion of the international search 05 September, 2003 (05.09.03) Date of mailing of the international search report 16 September, 2003 (16.09.03) | | | (16.09.03) | | | |
| Name and mailing address of the ISA/ Japanese Patent Office | | Authorized officer | | | | |
| Facsimile No. | | Telephone No. | | | | |





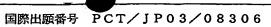
| C (Continua | tion). DOCUMENTS CONSIDERED TO BE RELEVANT | |
|-------------|--|----------------------|
| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No |
| Х | Noriko OKADA et al., Human IgM monoclonal antibody to ganglioside GM2 and complement suppress virus propagation in ex vivo cultures of lymphocytes from HIV-1 infected patients., Microbiology and Immunology 1999, Vol.43, No.7, pages 723 to 727 | 1-6 |
| Т | Reika ASAI et al., "HIV-1 Kansen Saibo ni Hanno suru IgM Kotai no Hotai Kasseikano to Amino-san Hairetsu tono Kanrensei", Hotai Symposium·Nihon Seitai Bogyo Gakkai Godo Gakujutsu Shukai Koenshu, 2002, Vol.3, Nos.9 to 3, pages 35 to 35 | 1-6 |
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| | 国除嗣 食報告 | 国際田願番号 PUI/JPU | 3/08306 | | |
|---|--|---|---|--|--|
| A. 発明の属する分野の分類(国際特許分類(IPC)) Int.Cl' C12N15/06, C12N5/20, C07K16/28, C12P21/08 | | | | | |
| B. 調査を行った分野 調査を行った最小限資料(国際特許分類(IPC)) Int.Cl' C12N15/00-90, C12N1/00-7/08, C07K14/00-16/46, C12P21/00-08 | | | | | |
| 最小限資料以外 | トの資料で調査を行った分野に含まれるもの | | | | |
| | | | | | |
| 国際調査で使用した電子データベース(データベースの名称、調査に使用した用語) JICSTファイル(JICST-EPLUS), EUROPAT (QUESTEL), SwissProt/PIR/GeneSeq, MEDLINE (STN), PUBMED, Genbank/EMBL/DDBJ/GeneSeq, WPI (DIALOG), BIOSIS (DIALOG) | | | | | |
| C. 関連する | ると認められる文献 | | | | |
| 引用文献の カテゴリー* | 引用文献名 及び一部の箇所が関連すると | きは、その関連する箇所の表示 | 関連する 請求の範囲の番号 | | |
| Х | WO 97/22361 A1 (OTSUKA PHARM CO L & JP 9-227409 A & EP 870509 A1 & | · | 1 — 6 | | |
| Х | 岡田 則子 他,糖鎖抗原GM2に対す V活性,名古屋市立大学医学会雑誌, | | 1-6 | | |
| Х | Wu Xiaoshan et al. The IgM antibo ganglioside GM2 correlates to the HIV-1-infected patients. Microbi 2000, Vol. 44, No. 5, p. 405-410 | disease status of | 1 — 6 | | |
| 区欄の続き | きにも文献が列挙されている。 | □ パテントファミリーに関する別 | 紙を参照。 | | |
| * 引用文献のカテゴリー 「A」特に関連のある文献ではなく、一般的技術水準を示すもの 「E」国際出願日前の出願または特許であるが、国際出願日 以後に公表されたもの 「L」優先権主張に疑義を提起する文献又は他の文献の発行日若しくは他の特別な理由を確立するために引用する 文献(理由を付す) 「O」口頭による開示、使用、展示等に言及する文献 「P」国際出願日前で、かつ優先権の主張の基礎となる出願 「&」同一パテントファミリー文献 | | | 送明の原理又は理論 当該文献のみで発明 さられるもの 当該文献と他の1以 自明である組合せに るもの | | |
| 国際調査を完了した日 05.09.03 | | 国際調査報告の発送日 86.09.03 | | | |
| 国際調査機関の名称及びあて先 日本国特許庁(ISA/JP) 郵便番号100-8915 東京都千代田区設が関三丁目4番3号 | | 特許庁審査官(権限のある職員) 阪野 誠司 電話番号 03-3581-1101 | 4B 9286 内線 3448 | | |





| C(続き). | 関連すると認められる文献 関連する 関連する | | | |
|-----------------|--|----------|--|--|
| 引用文献の カテゴリー* | 引用文献名 及び一部の箇所が関連するときは、その関連する箇所の表示 | 請求の範囲の番号 | | |
| X | Noriko OKADA et al. Human IgM monoclonal antibody to ganglioside GM2 and complement suppress virus propagation in ex vivo cultures of lymphocytes from HIV-1 infected patients. Microbiology and Immunology 1999, Vol. 43, No. 7, p. 723-727 | 1-6 | | |
| Т | 朝井 鈴佳 他,HIV-1感染細胞に反応するIgM抗体の補体活性化能とアミノ酸配列との関連性,補体シンポジウム・日本生体防御学会合同学術集会講演集,2002,第3巻,第9-13号,p. 34-35 | 1 — 6 | | |
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